

United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

FEBRUARY 1935

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Apple bitter rot and its control. John W. Roberts and Leslie Pierce, Bureau of Plant Industry. 11 p., illus. (F. B. 938F., rev.) Price, 5¢.

Containers used in shipping fruits and vegetables. H. A. Spilman, and Robert W. Davis, Bureau of Agricultural Economics. 34 p., illus. (F. B. 1579F., rev.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

A revisional study of the genus *Scolytus* Geoffroy (*Eccoptogaster* Herbst) in North America. M. W. Blackman, Bureau of Entomology and Plant Quarantine. 31 p. (T. B. 431TB.) Price, 5¢.

With the beginning of intensive field investigations of certain fir engraver beetles associated with the dying of fir trees, particularly in recreational areas in the Pacific Coast States, it became important that the identity of associated species of *Scolytus* be definitely determined.

Bridge piers as channel obstructions. David L. Yarnell, Bureau of Agricultural Engineering. 52 p., illus. (T. B. 442TB.) Price, 10¢.

This bulletin presents the results of about 2,600 experiments. The investigation was undertaken for the purpose of determining (1) the effect of shape of pier upon the height of backwater caused by the pier, (2) the effect of length of pier upon the height of back water, and (3) the effect of magnitude of channel contraction upon the height of backwater.

The European corn borer and its controlling factors in the Orient. Charles A. Clark, Bureau of Entomology and Plant Quarantine. 38 p., illus. (T. B. 455TB.) Price, 5¢.

This bulletin is based upon the results of investigations of the European corn borer and its parasites in Japan, Manchuria, Chosen, and Taiwan.

The rubber content of two species of *Cryptostegia* and of an interspecific hybrid in Florida. Loren G. Polhamus, Harlan H. Hill, and Joseph A. Elder, Bureau of Plant Industry. 23 p., illus. (T. B. 457TB.) Price, 10¢.

Investigation of the rubber-producing capacity of *Cryptostegia* has included comparisons of the rubber content of the two species and a hybrid, determination of seasonal variation in rubber content, and determination of individual plant yields.

Histological characters of flax roots in relation to resistance to wilt and root rot. Lytton W. Boyle, Bureau of Plant Industry. 19 p., illus. (T. B. 458TB.) Price, 5¢.

The purpose of the study here reported was to determine whether there was a correlation between histological characters of the roots of certain flax varieties and their relative resistance to fungi that infest the soil of flax fields at Fargo, N. Dak.

Studies of *Exeristes roborator* (Fab.), a parasite of the European corn borer, in the Lake Erie area. W. A. Baker and L. G. Jones, Bureau of Entomology and Plant Quarantine. 27 p., illus. (T. B. 460TB.) Price, 5¢.

A technical study of the biology of the parasite under controlled laboratory conditions, its reaction to meteorological influences, and its seasonal synchronization with its host under controlled field-plot conditions, particularly in that part of the one-generation area at Monroe, Mich.

Seasonal variations in carrying capacity of pastures for dairy cows in milk. T. E. Woodward and R. R. Graves, Bureau of Dairy Industry. 20 p., illus. (T. B. 465TB.) Price, 5¢.

If a pasture is sufficiently good one week, can it be depended upon to be good enough 2 weeks later? What is the difference in carrying capacity of a pasture from one season to another? To throw some light on these questions the writers have presented the available data in this publication.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Methods for determining the hydrogen-ion concentration of soils. E. F. Snyder, Bureau of Chemistry and Soils. 48 p., illus. (Cir. 56C., rev.) Price, 5¢.

Immunity of Viking, a Norwegian red currant, to *Cronartium ribicola* and *C. occidentale* under greenhouse conditions. Glenn Gardner Hahn, Bureau of Plant Industry. 16 p., illus. (Cir. 330C.) Price, 15¢.

This variety has been found to be immune to white pine blister rust under conditions of artificial greenhouse testing over a period of 4 years. A preliminary description is given, together with comparative leaf characters of other varieties.

Walnut blight and its control in the Pacific Northwest. Paul W. Miller, Bureau of Plant Industry. 14 p., illus. (Cir. 331C.) Price, 5¢.

It is the purpose of this circular to give in a brief and nontechnical manner the most essential information now available on walnut blight and its control as worked out under conditions in western Oregon.

Characters useful in distinguishing larvae of *Popillia japonica* and other introduced scarabaeidae from native species. Robert J. Sim, Bureau of Entomology and Plant Quarantine. 20 p., illus. (Cir. 334C.) Price, 5¢.

This circular is intended to present in the simplest way the characters most convenient to use in distinguishing the larvae of *Popillia japonica* and other introduced species from native species which are frequently associated with them.

Field practices affecting the control of cotton root knot in Arizona. C. J. King and Claude Hope, Bureau of Plant Industry. 14 p., illus. (Cir. 337C.) Price, 5¢.

This circular deals with the effects of fallowing, crop rotations, and irrigation on the incidence and severity of cotton root rot at Sacaton field station.

The rusts of cereal crops. H. B. Humphrey, Bureau of Plant Industry; E. C. Stakman, Bureau of Entomology and Plant Quarantine; E. B. Mainus, C. O. Johnston, H. C. Murphy, and Wayne M. Bever, Bureau of Plant Industry. 27 p., illus. (Cir. 341C.) Price, 5¢.

The rusts here considered are, according to their hosts or the plants they grow on, as follows: Wheat—stem rust, leaf rust, stripe rust; oats—stem rust and crown rust; barley—stem rust and leaf rust; rye—stem rust and leaf rust; corn—corn rust; and sorghum—sorghum rust.

The waterfowl flyways of North America. Frederick C. Lincoln, Bureau of Biological Survey. 12 p. (Cir. 342C.) Price, 5¢.

In the light of what has been learned about the attachment of birds for their ancestral flyways it is important that sportsmen throughout the country become acquainted with facts concerning each flyway if they are to aid their State and Federal conservation officials in preventing the extermination of the species that use any one of the four major waterfowl migration flyways.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Raising reindeer in Alaska. Lawrence J. Palmer, Bureau of Biological Survey. 41 p., illus. (M. P. 207MP.) Price, 5¢.

In 1920 the Bureau of Biological Survey undertook a study, authorized by Congress, of Alaska's grazing resources, and the working out of improved methods of reindeer herd and range management. This publication presents the latest developments in these studies and furnishes directions for carrying out the improved practices.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1932-33. 112 p. (S. B. 47SB.) Price, 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations governing the sanitary handling and control of hides, skins, fleshings, hide cuttings, parings, glue stock, hair, wool, and other animal byproducts, and hay and straw offered for entry into the United States. Revoking amendment 2 and amending regulations 6 and 16. Bureau of Animal Industry. 2 p. (Amdt. 3 to B. A. I. Order 341.)

Bureau of Animal Industry, Service and Regulatory Announcements. December 1934. Pp. 103-113. (S. R. A.-B. A. I. 332.) Price, 5¢ each.²

Notice of lifting quarantine no. 62—Narcissus bulb quarantine. Effective April 1, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q 62.)¹

Quarantine and other official announcements. Bureau of Entomology and Plant Quarantine. Pp. 59-92. July-September 1934. S. R. A.-B. E. P. Q. 120.)¹

Notice of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 235-276. (N. J. F. D. 22476-22575.) Pp. 333-348. (N. J., F. D. 22651-22675.)¹

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 203-213. (N. J., I. F. 1341-1356.)¹

SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Michigan, Alger County. (Number 32, series 1929.) 41 p., illus. Price, 40¢.

Michigan, Washtenaw County. (Number 21, series 1930.) 47 p., illus. Price, 35¢.

Oregon, Columbia County. (Number 35, series 1929.) 50 p., illus. Price, 35¢.

OTHER PUBLICATIONS

Canned-meat recipes. Bureau of Home Economics. 1 p. [Folder.]

Report of the Hawaii Agricultural Experiment Station, 1934. 31 p., illus. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 2, February 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 12, no. 1, January 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

¹These may be obtained from the issuing bureau.

²Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications



Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 70, Index number. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 5, no. 12, December 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 9. November 1, 1934. Illus.

Contents:

A cytological study of heterothallism in flax rust. Ruth F. Allen. (G-933)

Influence of soil moisture on longevity of cotton root-rot sclerotia (G-934).

C. J. King and E. D. Eaton.

Aberrations in the chemical composition of peas from plants affected with root rot. (N. Y. (Geneva)-11). Z. I. Kertesz, J. G. Horsfall, and A. H. Rouse.

A comparison of methods of botanical analysis of the native prairie in western North Dakota. (N. Dak.-9.) Herbert C. Hanson.

Cotton crop losses from *Phymatotrichum* root rot (Tex.-11). Walter N. Ezekiel and J. J. Taubenhaus.

Public roads. Vol. 15, no. 11, January 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Weekly weather and crop bulletin. Nos. 5-9, January 29-February 26, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.²

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

Agriculture's interest in America's world trade. Questions and answers on a vital aspect of America's future. 22 p. Price, 5¢.²

Marketing agreement and license for Connecticut Valley shade-grown tobacco (U. S. Type 61). Marketing agreement series—agreement no. 28. License series—license no. 28. (M-46.) 17 p. Price, 5¢.²

Marketing agreement and license for shippers of fresh peas and cauliflower grown in the State of Colorado. Marketing agreement series—agreement no. 56. License series—license no. 97. 28 p. (M-84.)³

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

³ These may be obtained free upon application to the Agricultural Adjustment Administration.

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